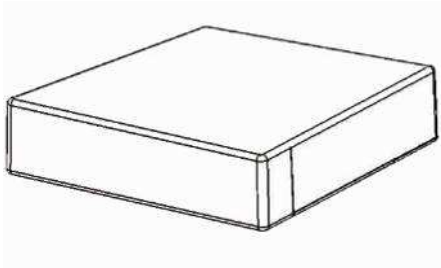
# Hidden Video Recording System Manual

**SSC-455-H**



**Thank you** for purchasing our Hidden Video Recorder System. Please read this manual before installation.

**For customer support**, please contact your dealer, and please keep your Invoice for further support.

**Do not open/modify** the device, as it may cause damage to the unit. For internal repairs, consult your dealer or an Authorized Service Center.

**Do not use** any accessories other than what comes with the unit; otherwise, it would be out of warranty.

**Protect from humidity.** Do not put it in water and be careful to protect it from rain, sea water, or high humidity environment etc.

**Protect from high temperatures**
To avoid damage or mis-operation of the device, only use in temperature of 0 ~ +40°C.

**Do not bring** the device suddenly from a hot to a cold place, or vice versa. This may cause damaged to the inside of the unit by creating condensation.

**EU Environmental Protection**
The symbol of crossed-out garbage shows that this product should not be treated as household waste, and it falls into the category of ***electric /electronic*** equipment for recycling. This electronic device should not be disposed in a regular trash. We strongly advice you to contact related authorization before you dispose this product.

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## Package Contains

2nd Generation Black Box

IR remote control

Power adapter (12VDC)

Bracket

AV Output cable

User manual

Micro SD Card reader (optional)

3.7V 4800mA Li-polymer battery

Micro SD card (optional)

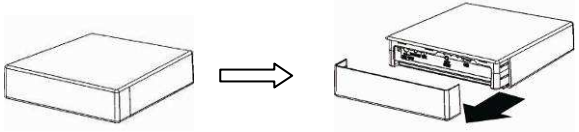
Charger cradle for Li-polymer battery (optional)

## Quick Setup

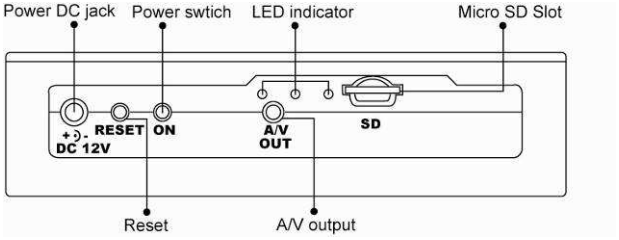
**Step 1**: Open the back cover
**Step 2**: Fully charge the battery for 10 hours for the first time using (please backup or format Micro SD card regularly to keep it efficient)
**Step 3**: Insert Micro SD card into Micro SD slot
**Step 4**: Set camera in the direction of your required application
**Step 5**: Press "ON" (power switch) to turn on 2nd Generation Black Box. The LED will be on and buzzer will beep around 2 seconds. To turn off 2nd Generation Black Box, press and hold "ON" for 5 seconds and let go, all LEDs will be off.

***Set** the DATE/TIME to current date and time before recording; or the recording date and time will be incorrect.
***Use** bundled accessories. Damage which is caused by other device will be beyond warranty

## How to open 2nd Generation Black Box

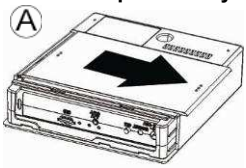


## Instruction

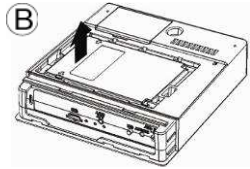


## Installation

**1. How to open battery cover**

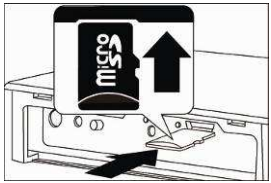



Turn the device upside down. Firstly open back cover and then slide off the battery cover according to the direction of arrow (from two points to three points)




After removing the battery cover, take out the battery for charging or changing the battery. **Please make sure of the right direction when slide battery back into place.**

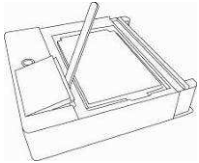
**2. How to insert/ draw out Micro SD card**




Firstly open the back cover of the device. Insert micro SD card in the slot. ***Never force the card into slot & make sure the direction is correct***. Press micro SD card for drawing out.

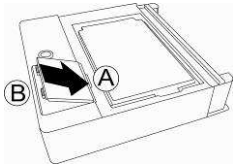
* Always power off the unit before removing the Micro SD card, otherwise, the card may be damaged.
* Never remove Micro SD card from your computer without using the "Safely Remove Hardware" icon in your computer system tray.

**3. How to open camera cover**



Insert any flat or sharp-pointed stick into the slot to pull open the camera cover.

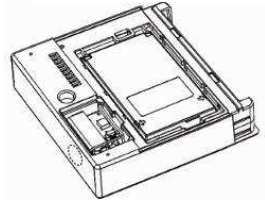
**How to close camera cover**




Firstly insert the camera cover into the slot. Push it toward the direction of A and make the cover tightly fixed. After the cover is fixed in side A, press the cover down toward B.

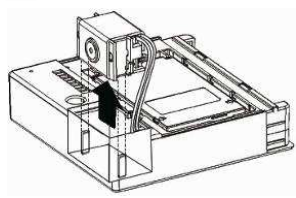
**4. How to change camera angle**

A



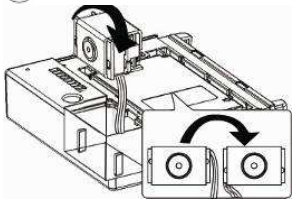
Firstly remove the battery cover and then the camera cover.

B



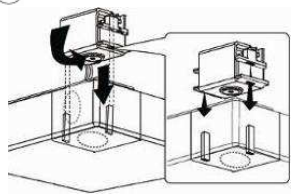
Take out the camera

C

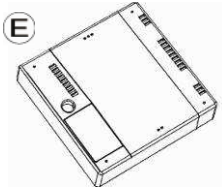


Turn the camera 180◦ horizontally

D

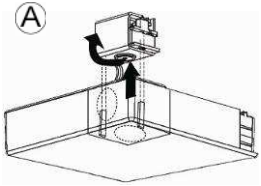


Make the camera lens facedown and put it back to the device. Make sure that the poles are correctly inserted into the holes of camera mechanism.

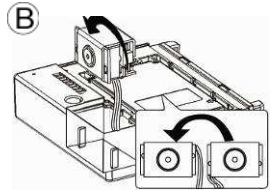



Put the camera cover on and then the battery cover. Close the back cover

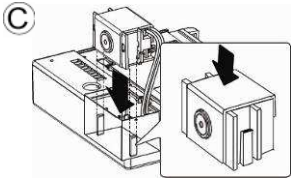
**To return to the original condition**




Take out the camera and turn it 90◦vertically to make the lens face front

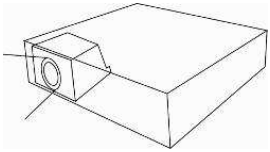


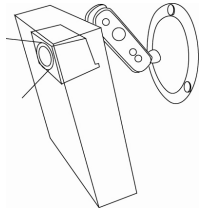

Turn the camera 180◦ horizontallv.



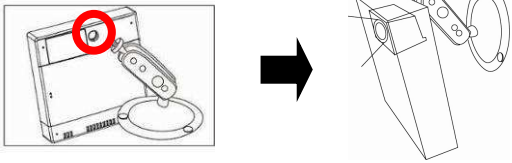

Put the camera back to the unit. Make sure that the poles appropriately fit in with the camera and make the camera neatly fit in.

**Two options for shot angle**





**5. How to install the bracket**



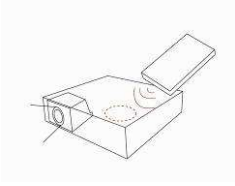
Screw the bracket to the hole in the back of 2nd Generation Black Box. Fasten the entire unit on the wall.

**6. How to charge the battery**

Connect bundled power adapter to power DC jack. The yellow LED will be on if the battery is charging. Please fully charge for **7~8 hours**. *(Please charge for **10 hours** when you charge the battery for the first time.)* With the optional cradle, the charging time is around **3 hours** and the green LED will be on. The battery, after fully charged, can last for **6.5 hours** at least under continuous recording. Under motion activation or power saving when out of schedule, 2nd Generation Black Box can last for longer.

* NOTE: Under low temperature conditions, the battery will have a shorter life than normal
* NOTE: Please use the bundled power adapter only. Damage which is caused by other power adapter will be beyond warranty.
* NOTE: Please charge the battery immediately after you receive the unit
* NOTE: Users are highly recommended to charge the battery once every 3 months to activate Li-polymer battery.

**7. IR Remote control sensing area**



Please point the IR remote control at the marked area

## Default Value

Video Resolution: **720x480**

Recording Quality: **Fair (1.2Mb)**

Frame Rate: **25/30 frames per second**

Motion Sensitivity: **High**

Motion Area: **All area effective**

Schedule Setting: **All (Sunday to Saturday) motion recording**

Storage: **Overwrite** (Will delete old recordings when card full)

Recording Length: **30 minutes a file**

Date/Time Stamp Format: **YYYY/MM/DD**

Date/Time Stamp Position: **Upper right**

Date / Time Stamp Color: **White**

Language: **English**

External Trigger: **Deactivate** (No use for this device)

Status Display: **On**

## Start to record

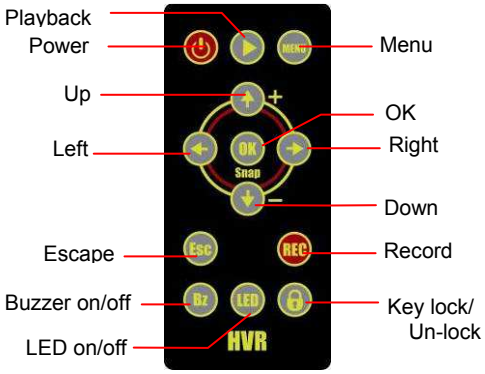
Once power on unit, recording is factory preset at motion activated. It can be reset as continuous recording, having scheduled, and external trigger activation thru MENU. Manual recording can always take place when **REC** button is pressed. (Please refer to "Remote Control" section)

* Please press "menu" key before taking away the Micro SD card; otherwise, the recording will not be saved onto Micro SD card.

## Playback Function

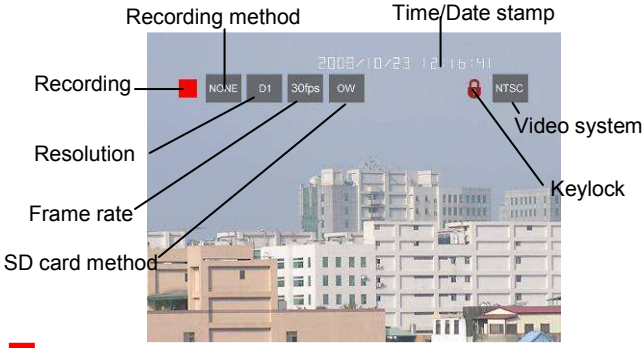
Press ▶ key on remote control to get into playback menu. You can use "Quick search", and enter the date/time which you would like to view. Or get into "List all", and press **OK** button to playback from a selected recording.

## Remote Control Diagram




| | Name | Function |
|---|---|---|
| ⏻ | Power | Power on/off the device |
| ▶ | Playback | Playback the recording files |
| MENU | Menu | Enter the menu setting |
| ▲ | Up | Move upward or increase<br>While playback - Volume up |
| ◀ | Left | Move left, fast backward |
| OK | OK | Confirm the setting/change<br>Still image (snapshot) |
| ▶ | Right | Move right, fast forward |
| ▼ | Down | Move downward or decrease<br>While playback - Volume down |
| Esc | Esc | Escape current menu |
| REC | REC | Manual record |
| Bz | Bz | Buzzer on/off |
| LED | LED | LED on/off |
| 🔒 | Keylock | Key lock/unlock |

## Screen Icons




■ : The red square will show up continuously when recording

NONE : Standby but not at recording

MD : Schedule on motion detection activated

Trig. : External trigger activate recording

Cont. : Schedule continuous recording

Manu : Manual recording by pressing “REC” button on remote controller

1fps 2fps 3fps……25fps / 30fps : Frame rate per second

720P : Resolution: 1280 x 720

D1 : Resolution: 720 x 480

CIF : Resolution: 320 x 240

OW : Overwrite old recordings when Micro SD card is full

FS : Stop recording when Micro SD card is full

NTSC PAL : Video system (NTSC/PAL)

## LED status

| | | | |
|---|---|---|---|
| Red LED | **On** Power on | X | **Off** Power off |
| Green LED | **On** System ready, Micro SD card normal, and has schedule |  **Blinking** System and Micro SD card normal, but doesn't have schedule | **Off** System not ready or Micro SD card abnormal |
| Yellow LED |  **On** Battery charging |  **Blinking** Running out of battery, please charge it |  **Off** Battery not charging |

## Recording Duration

NTSC @ 30 fps (unit: hour)

| NTSC | 1GB | 4GB | 8GB | 16GB |
|---|---|---|---|---|
| **1280x720 @ Better** | 0.59 | 2.38 | 4.77 | 9.54 |
| **720 x 480 @ Fair** | 2.00 | 7.99 | 15.98 | 31.96 |
| **320 x 240** | 4.13 | 16.52 | 33.04 | 66.08 |

PAL @ 25 fps (unit: hour)

| PAL | 1GB | 4GB | 8GB | 16GB |
|---|---|---|---|---|
| **1280x720@ Better** | 0.71 | 2.86 | 5.72 | 11.45 |
| **720 x 480@ Fair** | 2.39 | 9.58 | 19.17 | 38.35 |
| **320 x 240** | 4.95 | 19.82 | 39.64 | 79.29 |

* The recording duration may vary from image complication and frame rate setting
* Please safely remove MicroSD card on computer.
* Please press Menu or Playback key, or power off the board before taking away the microSD card.
* 1280x720 is reserved for high resolution video input.
* Please notice that in OSD menu, 1.2Mbps/ 4Mbps/ 6Mbps is the bit rate on 30fp

## The most frequent use and important functions

- **File name explanation**

T **2008** **09** **26** **14** **19** **20** .AVI

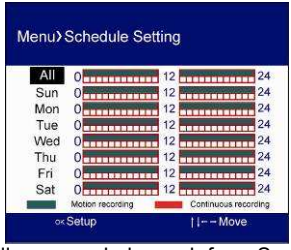
Year Month Date Hour Minute Second

- **To turn off date/time display on screen**

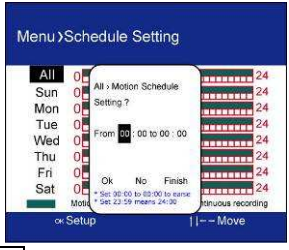
System Setting > Date/Time > Stamp Format > **Off**

- **To set schedule**

Default of schedule is All motion activate.




All means whole week from Sunday, Monday, to Saturday. You can simply set "All" and it will apply to whole week, or you can set certain schedule of an individual day. Just press "OK" on the day to settle the interval.




**OK**: To confirm the interval setting, and it will go to next interval for the same date and same recording method.

**NO**: Go to next schedule setting without saving the current interval

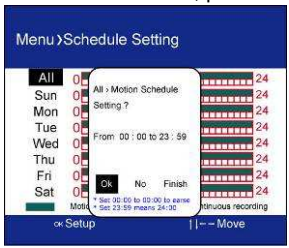
Schedule setting order:

1. All > Motion → All > Continuous (end)
2. Sun > Motion → Sun > Continuous → Mon > Motion → Mon > Continuous → Tue > Motion → … Until Sat > Continuous (end)

**Finish**: To escape schedule setting. Or you can press “Esc” button on remote control, too.

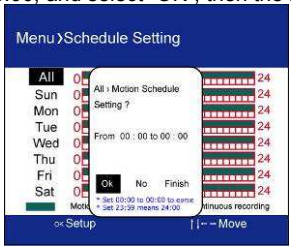
- **To set interval up to 24:00**

This recorder does not have 24:00 in the schedule setting. For interval end with 24:00, please set 23:59 instead.




- **To delete schedule**

In motion/continuous recording, if the interval is from 00:00 to 00:00, and select “OK”, then the interval will be canceled (erase).




* Please erase the schedule before settling the schedule.

## FAQ

**Q1. What player software should I use to playback the recording files?**

Ans. "Media Player Classic" is most recommended, and can be downloaded freely at http://ftp.freenet.de/pub/filepilot/windows/multimedia/video/k-lite_codec_pack/klcodec425f.exe. If you use "Windows Media Player" you may need to install mpeg-4 decoder. A lot more other mpeg-4 capable player can playback the record files, such as VLC, Storm Video Codec, …etc.

**Q2. How long can date/time last without outer power supply?**

Ans. RTC battery can last for 3 months without power supply (including battery power supply)

**Q3. Why cannot I power on the device?**

Ans. 1. Make sure the clear plastic protector of remote control has been removed.
2. Make sure the battery is well placed and has enough power inside.
3. When you use the remote control, make sure it facing to the device, the side with reference dot on the bottom.
4. The device was working if the LED was on and buzzer beeped when the device powered on. Please make sure you connect monitor appropriately.
5. If the device cannot be powered on, please contact your dealer.

**Q4. Why does the device not turn on according to schedule?**

Ans. The schedule will take place only when device is turned on. If the device is on, it will get into sleeping mode when out of schedule and no operation for 30 seconds. In sleeping mode, the device will auto-turn on according to the schedule. If the device is off, there won't be any schedule, and the device won't auto-turn on when schedule on.

*** Please press Menu or Playback key, or power off the board before taking away the Micro SD card.**

## Specifications

| | |
|---|---|
| **Video system** | NTSC / PAL |
| **Compression** | MPEG-4 |
| **Video resolution** | 1280x720 / 720x480 / 320 x 240 |
| **Recording quality** | Best / Better / Fair |
| **Recording frame rate** | 1, 2, 3, 5, 13/15, 25/30 fps |
| **Image Sensor** | 1/4", 720x480 (NTSC)/ 720x576 (PAL) |
| **Lens/ View Angle** | 2.6mm / 118° (horizontally) |
| **Video size** | Approx. 2 hours for 1GB (@720x480 Fair) |
| **Recording mode** | Manual, Schedule continuous, motion |
| **Audio recording** | Yes (Optional) |
| **A/V connection** | RCA composite AV output |
| **Power supply** | Changeable and rechargeable 3.7V 4800mAh Li-polymer battery |
| **Storage Media** | Micro SD card (1G to 32G, SDHC Class 6 is most recommended) |
| **Control** | IR remote control |
| **LED indicator** | Red, Yellow, Green, can be on/off via IR remote control |
| **Buzzer** | Can be on/off via IR remote control |
| **Time/Date stamp** | Yes, position adjustable |
| **Time/Date Battery** | Lasts for 3 months w/o power supply |
| **Power failure** | Auto Recovery |
| **Firmware Upgradable** | Yes, through micro SD Card |
| **Current consumption** | Operation mode : 2.6W<br>Standby mode : 2.5W<br>Sleep mode : 0.12W (Approx.) |
| **Operation temp.** | +0~+40°C |
| **Dimension** | 120(L)x120(W)x30.5(H) mm |

*** If there is no schedule and external trigger deactivated, the device will enter sleep mode after 30 seconds without control.**